

ABSTRACT OF THE DISCLOSURE

5 A perpendicular magnetic recording head for improving resolution includes a read element and a magnetic flux generating element spaced apart from the read element. The magnetic flux generating element transmits a magnetic flux into a soft magnetic underlayer of a magnetic recording medium adjacent an air-bearing surface of the magnetic flux generating element. The magnetic flux transmitted to the soft magnetic underlayer flows in the soft magnetic underlayer away from an area of the soft magnetic underlayer beneath the read element.

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